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Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Martin D. Moynihan".

Martin D. Moynihan

Registration No. 40,338

Dated: December 31, 2006



Sheet 1 of 3

INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)	Atty. Docket No. 910/12	Application No. 09/186,200
	APPLICANT Tuvia PERETZ et al	
	Filing Date	Group Art Unit

U.S. PATENT DOCUMENTS

	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
AA							

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
							YES	NO
AB								

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AC	Wight et al, "The Role of Proteoglycans in Cell Adhesion, Migration and Proliferation", <i>Curr. Opin. Cell Biol.</i> , 4:793-801, 1992 20437
AD	Jackson et al, "Glycosaminoglycans: Molecular Properties, Protein Interactions and Role in Physiological Processes", <i>Physiol. Rev.</i> , 71:481-539, 1991 20437
AE	Wight et al, "Cell Biology Of Arterial Proteoglycans", <i>Arteriosclerosis</i> , 9:1-20, 1989
AF	Kjellen et al, "Proteoglycans: Structures and Interactions", <i>Annu. Rev. Biochem.</i> , 60: 443-475, 1991
AG	Ruoslahti et al, "Proteoglycans as Modulators of Growth Factor Activities", <i>Cell</i> , 64: 867-869, 1991
AH	Vlodavsky et al, "Extracellular Matrix-Bound Growth Factors, Enzymes and Plasma Proteins" In <i>Basement Membranes: Cellular and Molecular Aspects</i> (eds. Rohrbach and Timpl), Academic Press, Inc., Orlando, Fla., 327-343, 1993
AI	Vlodavsky et al, "Expression of Heparanase by Platelets and Circulating Cells of the Immune System: Possible Involvement in Diapedesis and Extravasation", <i>Invasion & Metastasis</i> , 12: 112-127, 1992
AJ	Vlodavsky et al, "Inhibition of Tumor Metastasis by Heparanase Inhibiting Species of Heparin", <i>Invasion & Metastasis</i> , 14: 290-302, 1995
AK	Nakajima et al, "Heparanase and Tumor Metastasis", <i>J. Cell Biochem.</i> , 36: 157-167, 1988
AL	Liotta et al, "Tumor Invasion and the Extracellular Matrix", <i>Lab. Invest.</i> , 49: 639-649, 1983
AM	Vlodavsky et al, "Lymphoma Cell Mediated Degradation of Sulfated Proteoglycans in the Subendothelial Extracellular Matrix", <i>Cancer Res.</i> , 43: 2704-2711, 1983
AN	Vlodavsky et al, "Involvement of Heparanase in Tumor Metastasis and Angiogenesis", <i>Is. J. Med.</i> , 24: 464-470, 1988

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant.	

Form PTO-1449 (Modified)				Atty. Docket No. 910/12		Application No. 09/186,200	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)				APPLICANT Tuvia PERETZ et al			
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	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
							YES NO
BB							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
BC	✓ Parish et al, "Evidence that Sulfated Polysaccharides Inhibit Tumor Metastasis by Blocking Tumor Cell-Derived Heparanase", <i>Int. J. Cancer</i> , 40: 511-517, 1987 20432						
BD	✓ Vlodavsky et al, "Morphological Appearance, Growth Behavior and Migratory Activity of Human Tumor Cells Maintained on Extracellular Matrix vs. Plastic", <i>Cell</i> , 19: 607-616, 1980						
BE	✓ Vlodavsky et al, "Extracellular Sequestration and Release of Fibroblast Growth Factor: A Regulatory Mechanism?", <i>Trends Biochem. Sci.</i> , 16: 268-271, 1991						
BF	✓ Campbell et al, "Heparin Sulfate-Degrading Enzymes Induce Modulation of Smooth Muscle Phenotype", <i>Exp. Cell Res.</i> , 200: 156-167, 1992						
BG	✓ Lider et al, "Suppression of Experimental Autoimmune Diseases and Prolongation of Allograft Survival by Treatment of Animals with Heparinoid Inhibitors of T Lymphocyte Heparanase", <i>J. Clin. Invest.</i> , 83: 752-756, 1989						
BH	✓ Thunberg et al, The Molecular Size of the Antithrombin-Binding Sequence in Heparin", <i>FEBS Lett.</i> , 117: 203-206, 1980						
BI	✓ Goldberg et al, "An Improved Method for Determining Proteoglycans synthesized by Chondrocytes in Culture", <i>Connective Tissue Res.</i> , 24: 265-275, 1990						
BJ	✓ Hudson, PJ, "Recombinant Antibody Fragment", <i>Curr. Opin. Biotech.</i> , 4: 395-400, 1998						
BK	✓ Schoepe et al, "Neutralization of Hemolytic and Mouse Lethal Activities of <i>C. Perfringens</i> Alpha-Toxin Need Simultaneous Blockage of Two Epitopes by Monoclonal Antibodies", <i>Microbiol. Pathogenesis</i> , 23: 1-10, 1997						
BL	✓ Chiba et al, "Generation of Neutralizing Antibody to the Reverse Transcriptase of Human Immunodeficiency Virus Type 1 by Immunizing of Mice with an Infectious Vaccinia Virus Recombinant", <i>J. Immunological Methods</i> , 207: 53-60, 1997						
BM	✓ Wong, JF, "Monoclonal Antibodies: Therapeutic Applications Grow in Promise and Number", <i>Genetic Engineering News</i> , July, 1998, pp 23, 49						
EXAMINER				DATE CONSIDERED			
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Form PTO-1449 (Modified)

Atty. Docket No.
910/12Application No.
07/186,200

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION
(USE SEVERAL SHEETS IF NECESSARY)

APPLICANT
Tuvia PERETZ et al

Filing Date

Group Art Unit

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CA							
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CE							
CF							
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CH							
CI							
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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
							YES	NO
CH								

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CI	✓	Sherman-Gold, R., "Monoclonal Antibodies: The Evolution from '80s Magic bullets to Mature, Mainstream Applications as Clinical Therapeutics", <i>Genetic Engineering News</i> , August, 1997, pp 4, 35
CJ	✓	Danheiser, SL, "Rituxin Leads Line Of Hopeful Mab Therapies, yet FDA still has Bulk Manufacture Concerns", <i>Genetic Engineering News</i> , October, 1997, pp 1,6,33,38
CK	✓	Rader et al, A Phage Display Approach for Rapid Antibody Humanization: Designed Combinatorial V Gene Libraries", <i>Proc. Natl. Acad. Sci.</i> , 95: 8910-8915, 1998
CL	✓	Mateo et al, "Humanization of a Mouse Monoclonal Antibody that Blocks the Epidermal Growth Factor Receptor: Recovery Antagonistic Activity", <i>Immunotechnology</i> , 3: 71-81, 1997
CM		
CN		
CO		
CP		

EXAMINER

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Substitute for form 1449A/PTO

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 23

Complete if Known

Application Number	10/645,659
Filing Date	August 22, 2003
First Named Inventor	Oron YACOBY-ZEEVI et al
Art Unit	1644
Examiner Name	DIBRINO, MARIANNE NMN
Attorney Docket Number	26128

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1	US-5,997,863	07-7-1999	Zimmermann et al.	
	2	US-5,688,679	11-18-1997	Powell	
	3	US-6,387,643	05-14-2002	Heinrikson et al.	
	4	US-6,423,312	07-23-2002	Yacoby-Zeevi	
	5	US-6,531,129	03-11-2003	Pecker et al.	
	6	US-4,455,296	06-19-1984	Hansen et al.	
	7	US-5,571,506	05-5-1996	Regan et al.	
	8	US-5,917,830	06-29-1999	Chen et al.	
	9	US-5,859,660	01-12-1999	Perkins et al.	
	10	US-5,600,366	04-4-1997	Schulman	
	11	US-6,020,931	01-1-2000	Bilbrey et al.	
	12	US-6,153,187	11-28-2000	Yacoby-Zeevi	
	13	US-5,145,679	08-8-1992	Hinson	
	14	US-5,736,137	07-7-1998	Anderson et al.	
	15	US-5,194,596	03-16-1993	Tischer et al.	
	16	US-5,350,836	09-27-1994	Kopchick et al.	
	17	US-6,562,950	05-13-2003	Peretz et al.	
	18	US-5,580,862	03-3-1996	Rosen et al.	
	19	US-5,474,983	12-12-1995	Kuna et al.	
	20	US-2002/0102560	01-1-2002	Pecker et al.	
	21	US-5,618,709	08-8-1997	Gewirtz et al.	
	22	US-5,656,595	08-12-1997	Schweighoffer et al.	
	23	US-4,683,195	07-28-1987	Mullis et al.	
	24	US-5,602,095	02-11-1997	Pastan et al.	
	25	US-4,117,841	03-3-1978	Perrotta et al.	
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	30	US-5,799,311	08-25-1998	Agrawal et al.	
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	32	US-4,937,747	06-26-1990	Koller	
	33	US-6,307,965	10-23-2001	Aggarwal et al.	
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	35	US-5,859,929	01-12-1999	Zhou et al.	
	36	US-5,799,276	08-25-1998	Komissarchik et al.	
	37	US-2002/0068061	06-6-2002	Peretz et al.	

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Substitute for form 1449A/PTO SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/645,659
				Filing Date	August 22, 2003
				First Named Inventor	Oron YACOBY-ZEEVI et al
				Art Unit	1644
				Examiner Name	DIBRINO, MARIANNE NMN
Sheet 2 of 23				Attorney Docket Number	26128
U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	38	US-5,360,735	01-1-1994	Weinshank et al.	
	39	US-2002/0088019	04-4-2002	Yacoby-Zeevi	
	40	US-5,589,604	12-31-1996	Drohan et al.	
	41	US-5,700,671	12-23-1997	Prieto et al.	
	42	US-5,714,345	03-3-1998	Clark	
	43	US-5,716,817	02-10-1998	T?rnell	
	44	US-6,140,552	10-31-2000	Deboer et al.	
	45	US-2003/0163836	08-28-2003	Garofalo et al.	
	46	US-2002/0194625	12-19-2002	Zcharia et al.	
	47	US-6,190,875	02-20-2001	Ben-Artzi et al.	
	48	US-2001/0006630	05-5-2001	Yacobi-Zeevi et al.	
	49	US-2002/0114801	08-22-2002	Pecker et al.	
	50	US-6,475,763	05-5-2002	Ayal-Herskovitz et al.	
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	53	US-2003/0068806	04-10-2003	Ayal-Herskovitz et al.	
	54	US-2003/0031660	02-13-2003	Yacobi-Zeevi et al.	
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	56	US-4,882,318	11-21-1989	Vlodavsky et al.	
	57	US-5,129,877	07-14-1992	Gallo et al.	
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	65	US-6,348,344	02-19-2002	Ayal-Herskovitz et al.	
	66	US-4,946,778	08-8-1990	Ladner et al.	

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	67	PCT WO 95/04158	09-9-1995	Hoogewerf et al.		
	68	PCT WO 99/21975	06-6-1999	Freeman et al.		
	69	PCT WO 91/19197	12-12-1991	Nicolson et al.		
	70	PCT WO 95/04518	02-16-1995	Midha et al.		
	71	PCT WO 03/006645 A2	01-23-2003	Bohlen et al.		
	72	PCT WO 97/11684	03-3-1997	Bennett et al.		
	73	PCT WO 99/18852	04-22-1999	Arenson		
	74	PCT WO 91/02977	07-7-1991	Fuks et al.		
	75	PCT WO 97/27327	07-31-1997	Van Ness et al.		
	76	PCT WO 00/52149	08-8-2000	Yacobi-Zeevi		
	78	PCT WO 00/52178	08-8-2000	Pecker et al.		
	79	PCT WO 99/40207	08-12-1999	Nakajima et al.		
	80	PCT WO 98/46258	10-22-1998	Bhaskar et al.		
	81	EP 0254067	01-27-1988	Cohen et al.		
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	84	PCT WO 99/48478	09-30-1999	Yacoby-Zeevi		
	85	PCT WO 00/03036	01-20-2000	Ben-Artzi et al.		
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	88	PCT WO 02/32283	04-25-2002	Yacoby-Zeevi		
	89	PCT WO 02/19962	03-14-2002	Ilan et al.		
	90	AU 735116	06-28-2001	Pecker et al.		
	91	PCT WO 99/57244	11-11-1999	Ben-Artzi et al.		
	92	PCT WO 99/57153	11-11-1999	Pecker et al.		
	93	PCT WO 99/11798	03-11-1999	Pecker et al.		
	94	PCT WO 88/01280	02-25-1988	Nicolson et al.		
Examiner Signature				Date Considered		

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Sheet	4	of	23		
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
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	95	Vlodavsky et al. "Morphological Appearance, Growth Behaviour and Migratory Activity of Human Tumor Cells Maintained on Extracellular Matrix Versus Plastic", Cell, 19: 607-616, 1980.			
	96	Miao et al. "Modulation of Fibroblast Growth Factor-2 Receptor Binding Dimerization, Signaling, and Angiogenic Activity by A Synthetic Heparin-Mimicking Polyaromatic Compound", J. Clin. Invest., 99(7): 1565-1575, 1997.			
	97	Raghunath et al. "Cultured Epithelial Autografts: Diving From Surgery Into Matrix Biology", Pediatr. Surg. Int., 12(7): 478-483, 1997. Abstract.			
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	99	Wang "Basic Fibroblast Growth Factor for Stimulation of Bone Formation in Osteoinductive or Conductive Implants", Acta Orthop. Scand. Suppl., 269: 1-33, 1996. Abstract.			
	100	Wang "Basic Fibroblast Growth Factor Infused at Different Times During Bone Graft Incorporation. Titanium Chamber Study in Rats", Acta Orthop. Scand., 67(3): 229-236, 1996. Abstract.			
	101	Aspenberg et al. "Fibroblast Growth Factor Stimulates Bone Formation. Bone Induction Studied in Rats", Acta Orthop. Scand., 60(4): 473-476, 1989. Abstract.			
	102	Aspenberg et al. "Dose-Dependent Stimulation of Bone Induction by Basic Fibroblast Growth Factor in Rats", Acta Orthop. Scand., 62(5): 481-484, 1991. Abstract.			
	103	Matoba et al. "Evaluation of Omental Implantation for Perforated Gastric Ulcer Therapy: Findings in A Rat Model", J. Gastroenterol., 31(6): 777-784, 1996. Abstract.			
	104	Aplin "Adhesion Molecules in Implantation", Reviews of Reproduction, 2(2): 84-93, 1997.			
	105	Lessey et al. "Paracrine Signaling in the Endometrium: Integrins and the Establishment of Uterine Receptivity", J. Reprod. Immunol., 39(1-2): 105-116, 1998. Abstract.			
	106	Burrows et al. "Trophoblast Migration During Human Placental Implantation", Hum. Reprod. Update, 2(4): 307-321, 1996.			
	107	Bischof et al. "The Regulation of Endometrial and Trophoblastic Metalloproteinases During Blastocyst Implantation", Contracept Fertil Sex, 22(1): 48-51, 1994. Abstract. Article in French.			
	108	Smith et al. "Expression of Heparan Sulfate Protoglycan (Perlecan) in the Mouse Blastocyst Is Regulated During Normal and Delayed Implantation", Dev. Biol., 184(1): 38-47, 1997. Abstract.			

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				Filing Date	August 22, 2003
				First Named Inventor	Oron YACOBY-ZEEVI et al
				Group Art Unit	1644
				Examiner Name	DIBRINO, MARIANNE NMN
Sheet	5	of	23	Attorney Docket Number	26128
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	109	Abrahamsohn et al. "Implantation and Decidualization in Rodents", J. Exp. Zool., 266(6): 603-628, 1993. Abstract.			
	110	Yoshida "Effects of Basic Fibroblast Growth Factor on the Development of Mouse Preimplantation Embryos", Nippon Sanka Fujinka Gakkai Zasshi, 48(3): 170-176, 1996. Abstract.			
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	124	Kang et al. "Prolactin-Inducible Enhancer Activity of the First Intron of the Bovine β -Casein Gene", Mol. Cells, 8(3): 259-265, 1998. Abstract.			
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	141	Wang et al. "Isolation and Characterization of Pseudomonas Aeruginosa Genes Inducible by Respiratory Mucus Derived From Cystic Fibrosis Patients", Mol. Microbiol., 22(5): 1005-1012, 1996. Abstract.			
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	152	Pier et al. "Cystic Fibrosis Transmembrane Conductance Regulator Is An Epithelial Cell Receptor for Clearance of Pseudomonas Aeruginosa From the Lung", Proc. Natl. Acad. Sci. USA, 94(22): 12088-12093, 1997.				
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				First Named Inventor	Oron YACOBY-ZEEVI et al
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				Examiner Name	DIBRINO, MARIANNE NMN
Sheet	11	of	23	Attorney Docket Number	26128
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	191	Hillier et al. "The WashU-Merck EST Project", No. N30845, Databse GenBank on STN, US National Library of Medicine (Bethesda MD), 1996.			
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	205	Leong et al. "Different Classes of Proteoglycans Contribute to the Attachment of Borrelia Burgdorferi to Cultured Endothelial and Brain Cells", Infect. Immun., 66(3): 994-999, 1998. Abstract.			
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	219	Bennett et al. "Effect of Uridine 5'-Triphosphate Plus Amiloride on Mucociliary Clearance in Adult Cystic Fibrosis", Am. J. Respir. Crit. Care Med., 153(6 Pt.1): 1796-1801, 1996. Abstract.			
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	236	Loredo et al. "Regulation of Glycosaminoglycan Metabolism by Bone Morphogenetic Protein-2 in Equine Cartilage Explant Cultures", Am. J. Vet. Res., 57(4): 554-559, 1996.			
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	252	Bean et al. "Fertilization In Vitro Increases Non-Disjunction During Early Cleavage Divisions in A Mouse Model System", Human Reproduction, 17(9): 2362-2367, 2002. Abstract.			
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				First Named Inventor	Oron YACOBY-ZEEVI et al
				Group Art Unit	1644
				Examiner Name	DIBRINO, MARIANNE NMN
Sheet	17	of	23	Attorney Docket Number	26128
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	352	Linhardt et al. "Polysaccharide Lyases", Applied Biochemistry and Biotechnology, 12: 135-176, 1986.			
	353	Dempsey et al. "Heparanase, A Potential Regulator of CellMatrix Interactions", TIBS, 25(8): 349-351, 2000. P.350, Col.1, § 1, Col.3, § 1, Claims 1-24. //			
	354	Niwa et al. "Efficient Selection for High-Expression Transfectants With A Novel Eukaryotic Vector", Gene, 108(2): 193-199, 1991. Abstract.			
	355	Mirault et al. "Transgenic Glutathione Peroxidase Mouse Models for Neuroprotection Studies", Ann. NY Acad. Sci., 738: 104-115, 1994. Abstract.			
	356	Lampard et al. "Secretion of Foreign Proteins Mediated by Chicken Lysozyme Gene Regulatory Sequences", Biochem. Cell Biol., 80(6): 777-788, 2002. Abstract.			
	357	Morrison et al. "Sequences in Antibody Molecules Important for Receptor-Mediated Transport Into the Chicken Egg Yolk", Mol. Immunol., 38(8): 619-625, 2002.			
	358	Richards et al. "Construction and Preliminary Characterization of the Rat Casein and Alpha-Lactalbumin cDNA Clones", J. Biol. Chem., 256(1): 526-32, 1981.			
	359	Campbell et al. "Comparison of the Whey Acidic Protein Genes of the Rat and Mouse", Nucleic Acids Res., 12(22): 8685-8697, 1984.			
	360	Gorodetsky et al. "Isolation and Characterization of the Bos Taurus β -Casein Gene", Gene, 66: 87-96, 1988. Abstract.			
	361	Benezra et al. "Thrombin Enhances the Degradation of Heparan Sulfate in the Extracellular Matrix by Tumor Cell Heparanase", Exptl. Cell. Res., 201: 208-215, 1992.			
	362	Harlow et al. "Antibodies - A Laboratory Manual", Cold Spring Harbor Press, P. 471-510, 1988.			
	363	Murray et al. "The Extracellular Matrix", Harper's Biochemistry, McGraw-Hill Professional, 24th Ed., Chap.57, P.667-685, 1998.			
	364	Selvan et al. "Heparan Sulfate in Immune Responses", Ann. NY Acad. Sci., 797: 127-139, 1996.			
	365	Prockop "Marrow Stromal Cells as Stem Cells for Nonhematopoietic Tissues", Science, 276: 71-74, 1997.			
	366	Pomahac et al. "Tissue Engineering of Skin", Crit. Rev. Oral Biol. Med., 9(3): 333-344, 1998. Abstract.			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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**SUPPLEMENTAL INFORMATION
DISCLOSURE
STATEMENT BY APPLICANT**

Complete if Known

Application Number	10/645,659
Filing Date	August 22, 2003
First Named Inventor	Oron YACOBY-ZEEVI et al
Group Art Unit	1644
Examiner Name	DIBRINO, MARIANNE NMN
Attorney Docket Number	26128

Sheet	23	of	23
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Examiner
InitialsCite
No.¹
$$\mathbb{T}^2$$

367	Benathan et al. "Living Epidermal and Dermal Substitutes for Treatment of Severely Burned Patients", Rev. Med. Suisse Romande, 118(2): 149-153, 1998. Abstract-Art in French.
368	Wang et al. "Basic Fibroblast Growth Factor Enhances Bone-Graft Incorporation: Dose and Time Dependence in Rats", J. Orthop. Res., 14(2): 316-323, 1996. Abstract.
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370	Garner "Epidermal Regulation of Dermal Fibroblast Activity", Plast. Reconstr. Surg., 102(1):135-139, 1998. Abstract.

Considered

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. this collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.**

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Complete if Known

Application Number	10/456,573
Filing Date	06/09/2003
First Named Inventor	Iris PECKER
Group Art Unit	1646
Examiner Name	
Attorney Docket Number	25677

Sheet	2	Of	2
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Vlodavsky et al, "Inhibition of tumor metastasis by heparanase inhibiting species of heparin", <i>Invasion Metastasis</i> . 1994-95;14(1-6):290-302 (abstract)	
		Parish et al, "Evidence that sulphated polyaccharides inhibit tumour metastasis by blocking tumour-cell-derived heparanases", <i>Int J Cancer</i> . 1987 Oct 15;40(4):511-8.	
		Lider et al, "Suppression of experimental autoimmune diseases and prolongation of allograft survival by treatment of animals with low doses of heparins", <i>J Clin Invest</i> . 1989 Mar;83(3):752-6.	
		Gewirtz et al, "Nucleic acid therapeutics: state of the art and future prospects", <i>Blood</i> . 1998 Aug 1;92(3):712-36.	
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		Thuong et al, "Sequence-specific recognition and modification of double-helical DNA by oligonucleotides", <i>Angew. Chem Int. Ed. Engl.</i> , 32:666-690, 1993	
		Cohen, JS, "Oligonucleotide therapeutics", <i>Trends Biotechnol.</i> , 10(3):87-91, 1992 (abstract)	
		Szczylik et al, "Selective inhibition of leukemia cell proliferation by BCR-ABL antisense oligodeoxynucleotides", <i>Science</i> . 1991 Aug 2;253(5019):562-5. (abstract)	
		Calabretta et al, "Normal and leukemic hematopoietic cells manifest differential sensitivity to inhibitory effects of c-myc antisense oligodeoxynucleotides: an in vitro study relevant to bone marrow purging", <i>Proc Natl Acad Sci U S A</i> . 1991 Mar 15;88(6):2351-5.	
		Burch et al, "Oligonucleotides antisense to the interleukin 1 receptor mRNA block the effects of interleukin 1 in cultured murine and human fibroblasts and in mice", <i>J Clin Invest</i> . 88(4):1190-1196, 1991 (abstract)	
		Agrawal S., "Antisense oligonucleotides as antiviral agents", <i>Trends Biotechnol.</i> , 10(5):152-158, 1992, (abstract)	
		Uno et al, "Antisense-mediated suppression of human heparanase gene expression inhibits pleural dissemination of human cancer cells", <i>Cancer Res</i> . 2001 Nov 1;61(21):7855-60.	
Examiner Signature		Date Considered	

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Sheet 1 of 4

Form PTO-1449 (Modified)

Atty. Docket No.
910/1Application No.
08/922,170INFORMATION DISCLOSURE CITATION
IN AN APPLICATION
(USE SEVERAL SHEETS IF NECESSARY)Applicant:
Iris PECKER et alFiling Date:
September 2, 1997

Gr. A. 1. 1998

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GROUP 18

U.S. PATENT DOCUMENTS

	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	FILING DATE
AA	RP	5,362,641	Nov 94	Fuks et al	435	209
AB	RP	5,571,506	Nov 96	Regan et al	424	78.17
AC						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
							YES	NO
AD	RP	WO 9504518	Jul 94	PCT	—	—		
AE								

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AF	RP	Goshen et al, "Purification and Characterization of Placental Heparanase and its Expression by Cultured Cytotrophoblasts", <i>Molecular Human Reproduction</i> , 2(9): 679-684, 1996						
AG	RP	Bar-Ner et al, "Inhibition of Heparanase-Mediated Degradation of Extracellular Matrix Heparan Sulphate by Non-anticoagulant Heparin Species", <i>Blood</i> , 70(2): 551-557, 1987						
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AI	RP	Haimovitz-Friedman et al, "Activation of Platelet Heparitinase by Tumor Cell Derived Factors", <i>Blood</i> , 78: 789-796, 1991						
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AM	RP	R. Ross, "The Pathogenesis of Atherosclerosis: A Perspective for the 1990s", <i>Nature</i> , 362: 801-809, (1993)						
AN	RP	1993 Putnak et al, "A Putative Cellular Receptor for Dengue Viruses", <i>Nature Medicine</i> , 3(8): 828-829, 1997						
AO	RP	Cordon-Cardo et al, "Expression of Basic Fibroblast Growth Factor in Normal Human Tissues", <i>Laboratory Investigation</i> , 63(6): 832-840, 1990						

EXAMINER

Rebecca Prouty

DATE CONSIDERED

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)		Atty. Docket No. 910/1		Application No. 08/922 179			
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)		Applicant: Iris PECKER et al		REC FEB GROUP 1800			
		Filing Date: September 2, 1997				Group No. 1652	
U.S. PATENT DOCUMENTS							
	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
BA							
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
							YES NO
BB							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
BC	RP	Narindrasorasak et al, "High Affinity Interactions between the Alzheimer's β -Amyloid Precursor Proteins and the Basement Membrane Form of Heparan Sulfate Proteoglycan", <i>J. Biol. Chem.</i> , 266(20): 12878-12883, 1991					
BD	RP	Chen et al, "Dengue Virus Infectivity Depends on Envelope Protein Bin to Target Cell Heparan Sulfate", <i>Nature Medicine</i> , 3(8): 866-871, 1997					
BE	RP	Shieh et al, "Cell Surface Receptors for Herpes Simplex Virus are Heparan Sulfate Proteoglycan Proteoglycans", <i>J. Cell Biol.</i> , 116(5): 1273-1281, 1992					
BF	RP	Eisenberg et al, "Lipoprotein Lipase Enhances Binding of Lipoproteins to Heparan Sulfate on Cell Surfaces and Extracellular Matrix", <i>J. Clin. Invest.</i> , 90: 2013-2021, 1992					
BG	RP	Rapraeger et al, "Requirement of Heparan Sulfate for bFGF-Mediated Fibroblast Growth and Myoblast Differentiation", <i>Science</i> , 252: 1705-1708, 1991					
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BI	RP	Lider et al, "Suppression of Experimental Autoimmune Diseases and Prolongation of Allograft Survival by Treatment of Animals with Low Doses of Heparins", <i>J. Clin. Invest.</i> , 83: 752-756, 1989					
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BM	RP	Yayon et al, "Cell Surface, Heparin-Like Molecules are required for Binding of Basic Fibroblast Growth Factor to its High Affinity Receptor", <i>Cell</i> , 64: 841-848, 1991					
BN							
EXAMINER		Rebecca Prouty		DATE CONSIDERED		7-21-98	
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INFORMATION DISCLOSURE CITATION
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Atty. Docket No.
910/1Applicant
08/922, 170Applicant:
Iris PECKER et alFiling Date:
September 2, 1997

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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
							YES	NO
CB								

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CC	RP	Vlodavsky et al, "Extracellular Matrix-Bound Growth Factors, Enzymes, and Plasma Proteins". Basic Membranes: Cellular and Molecular Aspects (eds. Rohrbach & Timpl) pp 327-343, Academic Press, Orlando, Fla., 1993						
CD	RP	Vlodavsky et al, "Extracellular Sequestration and release of Fibroblast Growth Factor: A Regulatory Mechanism?", <i>Trends Biochem. Sci.</i> , 16: 268-271, 1991						
CE	RP	Ishai-Michaeli et al, "Heparanase Activity Expressed by Platelets, Neutrophils, and Lymphoma Cells releases Active Fibroblast Growth Factor from ExtraCellular Matrix", <i>Cell Regulation</i> , 1: 833-842, 1990						
CF	RP	Ishai-Michaeli et al, "Importance of Size and Sulfatation of Heparin in Release of Basic Fibroblast Growth Factor from the Vascular Endothelium and ExtraCellular Matrix", <i>Biochemistry</i> , 31(7): 2080-2088, 1992						
CG	RP	Folkman et al, "A Heparin-Binding Angiogenic Protein - Basic Fibroblast Growth Factor - is Stored Within Basement Membrane", <i>Am. J. Pathology</i> , 130(2): 393-400, 1988						
CH	RP	Vlodavsky et al, "Endothelial Cell-Derived Basic Fibroblast Growth Factor: Synthesis and Deposition into Subendothelial ExtraCellular Matrix", <i>Proc. Natl. Acad. Sci. USA</i> , 84: 2292-2296, 1987						
CI	RP	Folkman et al, "Angiogenic Factors", <i>Science</i> , 235: 442-447, 1987						
CJ	RP	Burgess et al, "The Heparin-Binding (Fibroblast) Growth Factor Family of Proteins", <i>Annu. Rev. Biochem.</i> , 58:575-606, 1989						
CK	RP	Vlodavsky et al, "Involvement of the ExtraCellular Matrix, Heparin Sulfate Proteoglycans, and Heparin Sulfate Degrading Enzymes in Angiogenesis and Metastis", In: <i>Tumor Angiogenesis</i> , Eds. Lewis et al, Oxford Univ. Press, pp 125-140, 1997						
CL	RP	Parish et al, "Evidence that Sulfated Polysaccharides Inhibit Tumor Metastis by Blocking Tumor-Cell-Derived Heparanases", <i>Int. J. Cancer</i> , 40: 511-518, 1987						
CM	RP	Bashkin et al, "Basic Fibroblast Growth Factor Binds to Subendothelial ExtraCellular Matrix and is Released by Heparitanase and Heparin-Like Molecules", <i>Biochemistry</i> , 28:1737-1743, 1989						
CN								

EXAMINER

Rebecca Proudy

DATE CONSIDERED

7-21-98

EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)		Atty. Docket No. 910/1		Applica ion No. 08/170			
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)		Applicant: Iris PECKER et al		RECEIVED FEB 9 1998 GROUP 1800 16:2			
		Filing Date: September 2, 1997					
U.S. PATENT DOCUMENTS							
	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
DA							
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS:	TRANSLATION
							YES NO
DB							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
DC	RP	Gospodarowicz et al, "Permissive effect of the ExtraCellular Matrix on Cell Proliferation <i>in vitro</i> ", <i>Proc. Natl. Acad. Sci. USA</i> , 77(7): 4094-4098, 1980					
DD	RP	Vlodavsky et al, "Morphological Appearance, Growth Behavior and Migratory Activity of Human Tumor Cells Maintained on ExtraCellular Matrix Versus Plastic", <i>Cell</i> , 19: 607-616, 1980					
DE	RP	Vlodavsky et al, "Involvement of Heparanase in Tumor Metastis and Angiogenesis", <i>Israel J. Med. Sci.</i> , 24: 464-470, 1988					
DF	RP	Vlodavsky et al, "Lymphoma Cell-mediated Degradation of Sulfated Proteoglycan: in the Subendothelial ExtraCellular Matrix: Relationship to Tumor Cell Metastis", <i>Cancer Research</i> , 43: 2704-2711, 1983					
DG	RP	Liotta et al, "Tumor Invasion and the ExtraCellular Matrix", <i>Lab. Inv.</i> , 49(6): 636-649, 1983					
DH	RP	Nicolson, G.L., "Organ Specificity of Tumor Metastis: Role of Preferential Adhesion, invasion and growth of Malignant Cells at Specific Secondary Sites", <i>Cancer Met. Rev.</i> , 7: 143-188, 1988					
DI	RP	Nakajima et al, "Heparanases and Tumor Metastis", <i>J. Cell. Biochem.</i> , 36: 157-167, 1988					
DJ	RP	Vlodavsky et al, "Inhibition of Tumor Metastis Inhibiting Species of Heparin", <i>Int. Metast.</i> , 14: 290-302, 1994					
	RP	Vlodavsky et al, "Expression of Heparanases by Platelets and Circulating Cells of the Immune System: Possible Involvement in Diapedesis and Extravasation", <i>Inv. Metast.</i> , 12: 112-127, 1992					
	RP	Ruoslahti et al, "Proteoglycans as Modulators of Growth Factor Activities", <i>Cell</i> , 64: 867-869, 1991					
	RP	Kjellen et al, "Proteoglycans: Structures and Interactions", <i>Annu. Rev. Biochem.</i> , 60: 443-475, 1991					
	RP	Wight, T.N., "Cell Biology of Arterial Proteoglycans", <i>Arteriosclerosis</i> , 9: 1-20, 1989					
	RP	Jackson, et al, "Glycosaminoglycans: Molecular Properties, Protein Interactions, and Role in Physiological Processes", <i>Physiological Rev.</i> , 71(2): 481-539, 1991					
	RP	Wight et al, "The Role of Proteoglycans in Cell Adhesion, Migration and Proliferation", <i>Curr. Opin. Cell Biol.</i> , 4: 793-801, 1992					
EXAMINER		Rebecca Ponty		DATE CONSIDERED		7-21-98	
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							



Form PTO-1449 (Modified)

Atty Docket No.
910/5Application No.
09/071,739INFORMATION DISCLOSURE CITATION
IN AN APPLICATION
(USE SEVERAL SHEETS IF NECESSARY)Applicant:
Iris PECKER et alRECEIVED
JUL 15 1998Filing Date:
May 1, 1998

GROUP 1800

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PATENT DOCUMENTS

	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
AA							

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
							YES	NO
AB								

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AC	MD	Wight et al, "The Role of Proteoglycans in Cell Adhesion, migration and Proliferation", <i>Current Opinion in Cell Biology</i> , 1992, 4:793-801
AD	MD	Jackson et al, "Glycosaminoglycans: Molecular Properties, Protein Interactions, and Role in Physiological Processes", <i>Physiological Reviews</i> , 71(2):481-539, 1991
AE	MD	Wight, T.N., "Cell Biology of Arterial Proteoglycans", <i>Arteriosclerosis</i> , 9:1-20, 1989
AF	MD	Kjellen et al, "Proteoglycans: Structures and Interactions", <i>Annu. Rev. Biochem.</i> , 60: 443-475, 1991
AG	MD	Ruoslahti et al, "Proteoglycans as Modulators of Growth Factor Activities", <i>Cell</i> , 64:867-869, 1991
AH	MD	Vlodavsky et al, "Extracellular Matrix-Bound Growth Factors, Enzymes and Plasma Protein", in <i>Basement Membranes: Cellular and Molecular Aspects</i> (eds. Rohrbach et al) pp 327-343, Academic Press Inc., Orlando, Fla.
AI	MD	Vlodavsky et al, "Expression of Heparanase by Platelets and Circulating Cells of the Immune System: Possible Involvement in Diapedesis and Extravasation", <i>Invasion & Metastasis</i> , 12: 112-127, 1992
AJ	MD	Vlodavsky et al, "Inhibition of Tumor Metastasis by Heparanase Inhibiting Species of Heparin", <i>Invasion & Metastasis</i> , 14: 290-302, 1993
AK	MD	Nakajima et al, "Heparanase and Tumor Metastasis", <i>J. Cell. Biochem.</i> , 36: 157-167, 1988
AL	MD	Liotta et al, "Tumor Invasion and the Extracellular Matrix", <i>Lab. Invest.</i> , 49: 636-647, 1983
AM	MD	Vlodavsky et al, "Lymphoma Cell Mediated Degradation of Sulfated Proteoglycans in the Subendothelial Extracellular Matrix: Relationship to Tumor Cell Metastasis", <i>Cancer Res.</i> , 43: 2704-2711, 1983
AN	MD	Parish et al, "Evidence that Sulphated Polysaccharides Inhibit Tumor Metastasis by Blocking Tumor cell-Derived Heparanase", <i>Int. J. Cancer</i> , 40: 511-518, 1987
AO	MD	Vlodavsky et al, "Morphological Appearance, Growth behavior and Migratory Activity of Human Tumor Cells Maintained on Extracellular Matrix vs. Plastic", <i>Cell</i> , 19: 607-616, 1980
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Atty. Docket No.
910/5

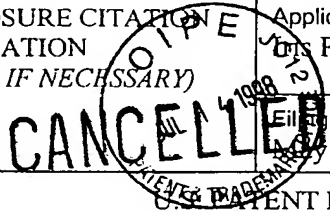
Application No.
09/071,739

INFORMATION DISCLOSURE CITATION
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Applicant:
Mrs PECKER et al

Filing Date:
May 1, 1998

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PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
BA						

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
					YES NO

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BCC	NO	Gospodarowicz et al, "Permissive Effect of the Extracellular Matrix on Cell Proliferation <i>in-vitro</i> ", <i>Proc. Natl. Acad. Sci. USA</i> , 77:4094-4098, 1980
BD	NO	Burgess et al, "The Heparin-Binding (Fibroblast) Growth Factor Family of Proteins", <i>Annu. Rev. Biochem.</i> , 58: 575-606, 1989
BE	NO	Folkman et al, "Angiogenic Factors", <i>Science</i> , 235: 442-447, 1987
BF	NO	Vlodavsky et al, "Extracellular Sequestration and Release of Fibroblast Growth Factor: a Regulatory Mechanism?", <i>Trends Biochem. Sci.</i> , 16: 832-840, 1991
BG	NO	Ishai-Michaeli et al, "Heparanase Activity Expressed by Platelets, Neutrophils and Lymphoma Cells Releases Active Fibroblast Growth Factor from Extracellular Matrix", <i>Cell Reg.</i> , 1: 833-842, 1990
BH	NO	Campbell et al, "Heparin Sulphate-Degrading Enzymes Induce Modulation of Smooth Muscle Phenotype", <i>Exp. Cell Res.</i> , 200: 156-167 (1992)
BI	NO	Oosta et al, "Purification and Properties of Human Platelets Heparitinase", <i>J. Biol. Chem.</i> , 257: 11,249 - 11,255, 1982
BJ	NO	Hoogewerf et al, "CXC Chemokines Connective Tissue Activating peptide-III and neutrophil Activating peptide -2 are Heparin/Heparan Sulfate-Degrading Enzymes", <i>J. Biol. Chem.</i> , 270: 3268-3277, 1995
BK	NO	Gordon-Cardo et al, "Expression of Basic Fibroblast Growth Factor in Normal Human Tissue", <i>Lab. Invest.</i> , 63(6): 832-840, 1990
BL	NO	Freeman et al, "Human Platelet Heparanase: Purification, Characterization and Catalytic Activity", <i>Biochem. J.</i> , 330: 1341-1350, 1988
BM	NO	Goshen et al, Purification and Characterization of Placental Heparanase and its Expression by Cultured Cytrophoblasts", <i>Mol. Human Reprod.</i> , 2: 679-684, 1996
BN	NO	Nakajima et al, Immunochemical Localization of Heparanase in Mouse and Human Melanomas", <i>Int. J. Cancer</i> , 45: 1088-1095, 1990
BO	NO	Mollinendo et al, "Major Colocalization of the Extracellular-Matrix Degradative Enzymes Heparanase and Gelatinase in Tertiary Granules of Human Neutrophils", <i>Biochem. J.</i> , 327: 917-923, 1997

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CM	NO	De Vouge et al, "Immunoselection of GRP94/Er doplasmin From a KNRK Cell-Specific λ gt11 Library Using Antibodies Directed Against a Putative Heparanase Amino-Terminal Peptide", <i>Int. J. Cancer</i> , 56: 286-294, 1994
CN	NO	Graham et al, "Comparison of the Heparanase Enzymes From Mouse Melanoma Cells, Mouse Microphages, and Human Platelets", <i>Biochem. And Mol. Biol. Int.</i> , 39(3): 563-571, 1996
CO	NO	Kosir et al, "Human Prostrate Carcinoma Cells Produce Extracellular Heparanase", <i>J. Surg. Res.</i> , 67: 98-105, 1997
CP	NO	Kosir et al, Abstract 3378, <i>Cancer Res.</i> , 37: 495 1996
CQ	NO	Ernst et al, "Enzymatic Degradation of Glycosaminoglycans", <i>Crit. Rev. In Biochem. And Mol. Biol.</i> , 30(5): 387-444 1995
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	NO	Soule et al, "Isolation and Characterization of a Spontaneously Immortalized Human Breast Epithelial Cell Line, MCF-10 ¹ ", <i>Cancer Res.</i> , 50: 6075-6086, 1990
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Marianne Dizon

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